

INTERNATIONAL SEARCH REPORT

US2004/024541

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D237/20 C07D237/22 A61K31/501 A61P3/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BEILSTEIN Data, EMBASE, BIOSIS, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/102778 A1 (YAMANOUCHI PHARMACEUTICAL CO., LTD; IWATA, MASAHIRO; KAWANO, NORIYUKI;) 27 December 2002 (2002-12-27) the whole document	10, 11, 37
P, X	-& EP 1 396 487 A1 (YAMANOUCHI PHARMACEUTICAL CO. LTD) 10 March 2004 (2004-03-10) page 31; example 49	10, 11, 37
X	WO 02/10154 A2 (ELI LILLY AND COMPANY; HERRON, DAVID, KENT; JOSEPH, SAJAN; MARQUART, A) 7 February 2002 (2002-02-07) claim 1	1-3
X	WO 99/00386 A1 (RESOLUTION PHARMACEUTICALS INC; POLLAK, ALFRED; DUNN-DUFAULT, ROBERT;) 7 January 1999 (1999-01-07) examples 5, 7 -/-	10, 37



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

1 February 2005

Date of mailing of the international search report

15/02/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
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	& WO 02/102778 A1 (YAMANOUCHI PHARMACEUTICAL CO., LTD; IWATA, MASAHIRO; KAWANO, NORIYUKI;) 27 December 2002 (2002-12-27) -----	
X	WO 97/37975 A1 (DR. KARL THOMAE GMBH) 16 October 1997 (1997-10-16) page 31 page 70; example 28 -----	1-3,10, 37
X	US 5 166 147 A (EARL ET AL) 24 November 1992 (1992-11-24) column 17; example 8 -----	1-3,10, 37
X	EP 0 320 032 A1 (JANSSEN PHARMACEUTICA N.V) 14 June 1989 (1989-06-14) p.28 (ex. 13,14,16), p.33(ex.30), p.34(ex.88) -----	10,37
X	EP 0 211 457 A2 (JANSSEN PHARMACEUTICA N.V) 25 February 1987 (1987-02-25) examples 6,9 -----	10,37
X	EP 0 156 433 A2 (JANSSEN PHARMACEUTICA N.V) 2 October 1985 (1985-10-02) page 54; example 41 -----	10,37
X	US 2 985 657 A (JANSSEN PAUL A. J) 23 May 1961 (1961-05-23) examples 20,24 -----	10,37
X	HORI T ET AL: "STUDIES ON ANTITUMOR-ACTIVE 2,3-DIOXOPIPERAZINE DERIVATIVES. III. SYNTHESIS AND STRUCTURE-ANTITUMOR ACTIVITY RALATIONSHIP OF 1-(4-AMINO BENZYL)-2,3-DIOXOPIPERAZINE DERIVATIVES" CHEMICAL AND PHARMACEUTICAL BULLETIN, PHARMACEUTICAL SOCIETY OF JAPAN. TOKYO, JP, vol. 29, no. 5, 1981, pages 1253-1266, XP001063113 ISSN: 0009-2363 example 17x; table VI -----	10,37
X	STECK ET AL.: "Pyridazines. VII ..." J.HETEROCYCL.CHEM., vol. 11, 1974, pages 1077-1079, XP002315167 page 1079 -----	10
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
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X	<p>TOLDY L ET AL: "PIPERAZINDERIVATE, I. 3,4,5-TRIMETHOXYBENZOYLDERIVATE, EINE NEUE VERBINDUNGSGRUPPE MIT ANTIULZEROGENER WIRKUNG"</p> <p>ACTA CHIMICA ACADEMIAE SCIENTIARUM HUNGARICA, BUDAPEST, HU, vol. 49, no. 3, 1966, pages 265-286, XP008033826 ISSN: 0001-5407 page 268; example 15</p>	10,11, 15,37
X	<p>RATOUIS ET AL.: "Synthesis and pharmacological..."</p> <p>J.MED.CHEM., vol. 8, 1965, pages 104-107, XP002315168 page 105; example 38</p>	10,37
X	<p>BOISSIER J R ET AL: "SYNTHESIS AND PHARMACOLOGICAL STUDY OF NEW PIPERAZINE DERIVATIVES. I. BENZYLPIPERAZINES"</p> <p>JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 6, September 1963 (1963-09), pages 541-544, XP001148182 ISSN: 0022-2623 page 542; example XXIII</p>	10,37
X	<p>DATABASE CAPLUS 'Online!</p> <p>CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; RN: 15567-65-4 1967, TOLDY ET AL.: "Piperazine derivatives..." XP002315169 retrieved from STN Database accession no. AN:1967:473577 abstract & ACTA CHIM.ACAD.SCI.HUNG., vol. 52, no. 3, 1967, pages 283-299,</p>	10,37
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A	<p>WO 01/62954 A2 (XENON GENETICS, INC; WISCONSIN ALUMNI RESEARCH FOUNDATION; UNIVERSITY) 30 August 2001 (2001-08-30) page 51</p>	1-37

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